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添付公開書類

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請求の範囲の補正の期限前の公開:補正書受領の際には再公

開される。

STABILIZER FOR ORGANIC POLYMERIC MATERIAL AND ORGANIC POLYMERIC MATERIAL (54)Title: COMPOSITION

有機高分子材料用安定剤および有機高分子材料組成物

## (57) Abstract

A stabilizer composition for organic polymeric materials which comprises (a) a 6-hydroxychroman compound, (b) a phosphorus compound antioxidant selected among biphenylene phosphonite compounds, aryl phosphite compounds, pentaerythritol phosphite compounds, and oxaphosphocin compounds, and (c) a phenolic antioxidant, the amount of ingredient (a) and the sum of ingredients (b) and (c) being 0.5 to 10 wt.% and 99.5 to 90 wt.%, respectively, based on the total amount of ingredients (a), (b), and (c); and an organic polymeric material composition comprising an organic polymer and the stabilizer composition incorporated therein. By using the stabilizer composition as a stabilizing agent for an organic polymeric material, a stabilized organic polymeric material composition can be obtained which has excellent thermal stability during processing and is extremely industrially useful.

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AN
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CR
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DNC C1999-185235
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     Stabilizer for organic polymeric material composition.
DC
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IN
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AB
            9954394 A UPAB: 20010312_
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     NOVELTY - A stabilizer composition comprises:
           (a) a 6-hydroxychroman compound;
           (b) a phosphorus compound antioxidant; and
           (c) a phenolic antioxidant;
           and is used for organic materials.
           DETAILED DESCRIPTION - A stabilizer composition comprises:
           (a) a 6-hydroxychroman compound;
           (b) a phosphorus compound antioxidant; and
           (c) a phenolic antioxidant;
           and is used for organic materials.
           (a) is at lest one compound selected from compounds represented by
     general formula (1).
           R1 = 1-18C alkyl group or 2-18C alkenyl group;
           R2 = 1-5C alkyl group;
           R3, R4, R5 = H or 1-4C alkyl group;
           R6 = H \text{ or } 1-5C \text{ alkyl group}
           (b) is at least one phosphorus antioxidant selected from compounds
     represented by general formulae ( b-1), (b-2), (b-3) and (b-4).
           (b-1) is represented by general formula (2) or (4):
           (b-2) is represented by general formula (5), (6) or (7):
           (b-3) is represented by general formula (8) or (9).
           (b-4) is represented by general formula (12).
           R7, R8 = 1-4C alkyl group;
     R9 = H \text{ or } CH3;
           Q2 = group represented by formula (3);
     i = 0 \text{ or } 1:
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j = 0 \text{ or } 1;
      o = integer between 1 and 10;
      R10 = 1-18C alkyl, phenyl or group represented by (6);
      R12, R13 = 1-4C alkyl group;
R14 = H \text{ or } CH3;
      R11 = 1-18C alkyl, 7-9C phenyl alkyl, cyclohexyl, phenyl group or
group represented by (6);
p = 3;
      L1 = 1,1,3-butanetriyl group;
q = 1 \text{ or } 2;
      A = group represented by formula (10) when q=1, or 2-18C alkylene,
p-phenylene or p-biphenylene group when q=2;
      R18, R19 = 1-4C alkyl group;
      R20 = H or 1-4C alkyl group;
      R5, R16 = 1-4C alkyl group;
      R17 = 1-18C alkyl, 7-9C phenylalkyl, cyclohexyl, phenyl or group
represented by formula (11);
      R21, R22 = 1-4C alkyl or 7-9C phenylalkyl group;
      R23 = H or 1-4C alkyl group;
      R24 = 1-5C alkyl group;
      R25 = H \text{ or } 1-5C \text{ alkyl group};
R26 = H \text{ or CH3};
      R27 = single bond, methylene, - CH(R29), S;
      R29 = 1-4C alkyl group;
      R28 = N(CH2CH2O-)3 when r=3, or 1-18C alkyl, halogen atom, OH or
1-8C alkoxy group when r= 1;
      (c) is a phenol antioxidant.
      USE - The stabilizer is useful for producing synthetic polymers,
oils, fats, lubricating oils, mechanical oils, etc.
      ADVANTAGE - The stabilizer provides excellent stability against
light, oxidation, heat, etc. to organic polymers.
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